Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-25-86** **Date: 30-01-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 04
Agency	:	Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/000103/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-01-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-03-25-86** **Date: 02-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 04
Agency	:	Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/000103/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-2019
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	01-02-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.617	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Authorized Signatory
Technical Manager

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TEST REPORT OF PRECAST COVER SLAB

Date: 08-02-2019

Lab ID	:	**CP-2019-03-25-86**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 04
Agency	:	Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/000103/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-02-2019
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/02/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	153.9	4.9	4.5	5.7
2	Cover Slab-2	200.49	250.52	3.122	31564	151.3	4.8	4.5	5.6
3	Cover Slab-3	200.50	250.51	3.118	31567	152.5	4.8	4.5	5.6

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2019-03-25-86** **Date: 13-02-2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-02-2019

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 09/02/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	175.04	200.52	3.864	24059	192.1	8.0	8.0	10.0
2	B	175.03	200.49	3.793	24057	195.2	8.1	8.1	10.1
3	C	175.06	200.53	3.815	24065	195.1	8.1	8.1	10.1

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-25-86** **Date: 31-01-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 04
Agency	:	Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/000103/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-01-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-01-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-03-25-86** **Date: 31-01-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Works in Ward No 04
Agency	:	Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/000103/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-01-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-03-25-86** **Date: 30-01-2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-01-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 28-01-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	209	224	22.4	77.6	60-95	75-100	85-100	95-100
4	1.18 mm	178	402	40.2	59.8	30-70	55-90	75-100	90-100
5	600 micron	201	603	60.3	39.7	15-34	35-59	60-79	80-100
6	300 micron	189	792	79.2	20.8	5-20	8-30	12-40	15-50
7	150 micron	138	930	93.0	7.0	0-10	0-10	0-10	0-15
8	Pan	70	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-25-86** **Date: 21/02/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	149.47 X 149.41 X 149.29	22332	8.447	413.5	18.5	18.5
2	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	151.33 X 150.25 X 149.39	22737	8.329	414.3	18.2	
3	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	150.32 X 151.66 X 149.95	22796	8.551	427.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-25-86** **Date: 21/02/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	150.53 X 149.92 X 151.40	22568	8.447	408.2	18.1	18.1
2	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	150.52 X 150.62 X 151.12	22671	8.329	409.1	18.0	
3	Drain Bottom Slab Concrete	M20	14/02/2019	21/02/2019	149.76 X 149.93 X 151.23	22454	8.551	406.5	18.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-25-86 **Date: 14/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-02-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/02/2019	14/03/2019	149.26 X 150.08 X 151.35	22401	8.977	527.2	23.5	23.2
2	Drain Bottom Slab Concrete	M20	14/02/2019	14/03/2019	151.01 X 149.01 X 150.19	22502	8.633	501.9	22.3	
3	Drain Bottom Slab Concrete	M20	14/02/2019	14/03/2019	150.67 X 149.29 X 150.94	22493	8.492	532.9	23.7	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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CIVIL Pro BANGALORE Sig..... Date.....

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-25-86** **Date: 25/02/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2019	25/02/2019	149.33 X 149.22 X 150.92	22282	8.447	420.1	18.9	18.8
2	Drain Side Wall Concrete	M20	18/02/2019	25/02/2019	151.61 X 151.04 X 149.93	22900	8.329	435.0	19.0	
3	Drain Side Wall Concrete	M20	18/02/2019	25/02/2019	149.59 X 151.19 X 151.09	22616	8.551	421.5	18.6	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-25-86** **Date: 18/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Emergency Works in Ward No 04

Agency : Sri.Anjan Kumar Y.A No:456/500, Maheshwaramma Temple Street, Yelahanka Old Town, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/000103/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/02/2019	18/03/2019	149.14 X 149.79 X 151.58	22339	8.977	517.3	23.2	22.9
2	Drain Side Wall Concrete	M20	18/02/2019	18/03/2019	150.26 X 149.13 X 151.25	22407	8.633	504.1	22.5	
3	Drain Side Wall Concrete	M20	18/02/2019	18/03/2019	151.45 X 149.50 X 150.83	22642	8.492	523.2	23.1	

Note:

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HIGHWAY & BUILDING MATERIALS TESTING